



FAA-1055c
AMENDMENT-3
25 May 1971
SUPERSEDING
AMEND.-2, 4/9/68

DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION SPECIFICATION

SERIES/SERIES ISOLATION TRANSFORMERS

This amendment forms a part of FAA-1055c dated August 15, 1962.

Page 1, Paragraph 1.2: In this and all subsequent paragraphs in this specification, delete the term "60 cycles" and substitute "60 Hz." In the same paragraph in the description of the Type II transformer change the rating from "300 watt" to "200 watt".

Page 1, Paragraph 2: Delete the entire text and substitute the following therefor:

"2. APPLICABLE DOCUMENTS:

2.1 FAA Documents.- The following FAA documents of the issue in effect the date of invitation for bids or request for proposals, form a part of this specification and are applicable to the extent specified herein.

2.1.1 FAA Specification.-

Advisory Circular #	Plug and Receptacle, Cable Connector
AC 150/5345-26	

2.1.2 FAA Standard.-

FAA-STD-013

Quality Control Program Requirements

2.2 Military Specification.- The following Military specification, of the issue in effect on the date of the invitation for bids or request for proposals, form a part of this specification and is applicable to the extent specified herein.

MIL-17555

Electronic and Electrical Equipment,
and Associated Repair Parts, Preparation
for Delivery of '

2.3 Other Publications.- The following publications, of the issue in effect on the date of invitations for bids or requests for proposals, form a part of this specification and are applicable to the extent specified herein.

2.3.1 American Society for Testing Materials (ASTM) Standards.-

D-753

General-Purpose Neoprene Sheath for
Wire and Cable

D-2240

Indentation Hardness of Rubber and
Plastic by Means of a Durometer

(Copies of this specification and the other applicable FAA specification and standard may be obtained from the Contracting Officer in the Office issuing the invitation for bids or request for proposals. The requests should fully identify material desired, ie., standard specification and amendment numbers and dates. Request should cite invitation for bids, request for proposal, or contract involved or other use to be made of the requested material.)

(Request for copies of Military specification should be addressed to Commanding Officer, Naval Supply Depot, 5801 Tabor Avenue, Philadelphia, Pennsylvania 19120.)

(Information on obtaining ASTM standards may be obtained from the American Society for Testing and Materials, 1916 Race Street, Philadelphia, Pennsylvania 19103.)"

Page 2, Paragraph 3.3.1: In line 1 of the Type II transformer description, delete "300 watt" and substitute "200 watt".

Page 3, Paragraph 3.4.1: Delete the sixth sentence from the beginning to the colon and substitute: "The material shall meet the physical requirements of ASTM D-753. The minimum strength requirements shall be at least the following:"

In this same paragraph, delete the last line in the tabulation of physical requirements and substitute: "durometer hardness shall be 65 ± 10 as measured in accordance with ASTM D-2240."

Page 4, Paragraph 3.4.2: Delete in lines 12 and 13 the sentence "The leads shall conform..... in FAA-1041d." and substitute: "The leads shall conform to all applicable requirements of FAA Advisory Circular AC 150/5345-26. (NOTE: Wherever FAA-1041d appears throughout this specification substitute AC 150/5345-26)."

Page 4, Paragraphs 3.4.2.1 and 3.4.2.2: Delete these paragraphs in their entirety and substitute the following therefor:

"3.4.2.1 Primary Leads.- One primary lead shall be in accordance with FAA Advisory Circular AC 150/5345-26, Figure 6a, 12 inches (+3", -1") long. The other primary lead shall be in accordance with the same advisory circular Figure 6b, 12 inches (+3", -1") long.

3.4.2.2 Secondary Leads.

3.4.2.2.1 Type I and Type III Transformers.- The secondary lead shall be in accordance with Advisory Circular #AC 150/5345-26, Figure 1c, 36 inches (+3", -1") long.

3.4.2.2.2 Type II Transformers.- The secondary lead shall be in accordance with Advisory Circular #AC 150/5345-26 Figure 1c, 12 inches (+3", -1") long."

Page 5, Paragraph 3.6: Delete the present text in its entirety and substitute the following therefor:

"3.6 Transformer Marking.- Information specified below shall be molded on the case surface of each transformer in letter sizes not greater than 0.187 inch and not smaller than 0.100 inch.

Name: ISOLATION TRANSFORMER

Type I 300 watt, 6.6/6.6A, SERIES/SERIES, 60 Hz, 5kV

Type II 200 watt, 6.6/6.6A, SERIES/SERIES, 60 Hz, 5kV

Type III 500 watt, 20/20A, SERIES/SERIES, 60 Hz 5kV

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FAA Order/Contract No. _____

Manufacturer's Part No. _____

Manufacturer's Name
or Trademark _____ "

Page 6, Paragraph 4: Delete the title and substitute:

"4. QUALITY ASSURANCE PROVISIONS.

Except as specified hereinafter, the contractor shall be responsible for the performance of all inspection and tests and shall provide and maintain for this purpose a quality control program in accordance with FAA-STD-013."

Page 8, Paragraph 4.3.1.1: Delete TABLE II (Type II Transformer) in its entirety and substitute the following:

"TABLE II (Type II Transformer)

Primary Amperes	Primary P.F. (% Min.)	Efficiency (% Min.)	Secondary Amperes	Load Conditions
2.8	-	-	2.75 to 2.95	2.25 ohms (200w lamp & losses)
3.4	-	-	3.35 to 3.55	2.7 " (200w lamp & losses)
4.1	-	-	4.0 to 4.3	3.1 " (200w lamp & losses)
5.2	-	-	5.1 to 5.4	3.58 " (200w lamp & losses)
6.6	95%	90%	6.53 to 6.67	4.82 " (200w lamp & losses)
6.6	-	-	6.6 to 7.1	short circuit -
6.6	-	-	0	open circuit -

*Lamp connected to the transformer leads shall be type Q6.6A/PAR-64/2P, 200 watt, 6.6 amp., 2000 hour life."

Pages 8 and 9, Paragraph 4.3.1.1: Change notations marked with (*) on the end of TABLE I and TABLE III to read as follows:

In TABLE I; "*Lamps connected to transformer leads shall be type Q20A/PAR56, 300 watt, 20 amp., 500 hour life or Q20A/PAR56/2, 300 watt, 20 amp., 500 hour life."

In TABLE III; "*Lamp connected to transformer leads shall be type Q20A/PAR56/1, 500 watt, 20 amp., 500 hour life."

Page 10, Paragraph 4.3.1.3.5: At the end of the fifth sentence, add:
"The DC test voltage specified below shall be the voltage impressed on the specimen under test and the voltmeter shall actually indicate this voltage."

Page 10, Paragraph 4.3.1.4.1: Delete the first sentence consisting of lines 1 and 2. In the same paragraph on Page 11 in the first line of the temperature rise formular Change $(R_1 - R_0)$ to $(R_1 - R_0)$."

Page 11, Paragraph 4.3.2.1.: In lines 3 and 4 delete the text in parentheses and substitute: "(300 watt lamp and losses for the Type I, 200 watt lamp and losses for the Type II and 500 watt lamp and losses for the Type III transformer)".

Pages 12 and 13, Paragraphs 5.1 and 5.2: Delete the existing text and substitute the following:

"5.1 General.- Unless otherwise specified (6.1) in the contract, the transformers shall be prepared for domestic shipment in accordance with following sub-paragraphs.

5.2 Packaging.- Packaging shall be in accordance with Level A, Method III, Specification MIL-E-17555, except that the unit packages may contain two like transformers with a separator.

5.2.1 Packing.- Packing shall be Level B, Specification MIL-E-17555. Not more than eight (8) like transformers shall be packed in one shipping container."

Page 13, Paragraph 5.3: Change first two lines to read: "5.3 Marking.- Packages and shipping containers shall be durably and legibly marked indicating the contents as follows:" In this same paragraph in each group of transformers (Types I, II, and III) change "FAA-1055c" to FAA-1055c (3)". In addition, change rating of the Type II transformer from "300 watt" to "200 watt."

Page 13, Paragraph 6.1: Delete in the Options column lines 3 and 4 and substitute the following:

"Waive Government witnessing of tests on the first two units of production, if not required. However, specify submission of certified test data sheets of all tests conducted by the manufacturer or a testing laboratory in accordance with Paragraphs 4.3.1 through 4.3.2.3."

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